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Snowpacks vary from well above average in the northwest Montana to well below average in the southwest and north-central part of the state and in the smaller mountain ranges of central Montana. Cumulative mountain precipitation since October 1 is well above average in the northwestern and north-central areas, below average in southwest Montana and near to above average elsewhere. Reservoir storages are generally near to above average except in southwest and central Montana where below to well below average storage levels are reported.

SNOWPACK

The water year began with above normal snow accumulations at the higher elevation mountain areas over much of the state during October and early November. Precipitation at the lower elevations during this period generally fell in the form of rain resulting in below average snowpacks. Late November and December brought mostly dry weather patterns over the state except in the northwest part where above average precipitation and snow accumulations continued. As of January 1, snowpack conditions range from well below average in the Red Rock River Drainage in southwest Montana to well above average in the northwest area of the state. West of the Divide, snowpack conditions are well above average in the Kootenai and Flathead River Basins, above average in the Lower Clark Fork, Blackfoot and the west side of the Bitterroot Basins and near to a little below average in the remainder of the Bitterroot and Upper Clark Fork Basins. East of the Divide, well above average snowpacks are found in the headwaters of the St. Mary, Milk, Sun, Teton and Marias River Drainages. In contrast, well below average conditions are present in the Bear Paw and Snowy Mountains in the north-central part of the state and in the Red Rock River Basin in southwest Montana. Elsewhere, snowpacks generally range from a little below to below average with the Beaverhead and Ruby River Basins showing the poorest snowpack conditions. Near to a little below average snowpacks are noted in the headwaters of the lower Yellowstone tributaries in Wyoming except in the Little Bighorn Basin where well below average conditions exist.

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PRECIPITATION

MOUNTAIN AREAS - October mountain precipitation was well above average in the west, northwest and north-central areas of Montana. Elsewhere, October mountain precipitation was generally near or a little above average except in the Yellowstone Headwaters where above average precipitation was reported. November mountain precipitation was again well above average in the northwest and north-central areas, above average in the central part of the state and near to a little below average in the south-central and southwest areas. December precipitation was generally below average except in northwest Montana where above average precipitation fell on the Kootenai and Flathead Basins. December precipitation was near average in the St. Mary, Sun, Teton and Marias Basins on the east side of the Divide. Since October 1, the season's totals for mountain precipitation are well above average on the Kootenai, Flathead, Lower Clark Fork, St. Mary, Milk, Sun, Teton and Marias River Drainages. Below average totals have been recorded on the Jefferson, Madison and Gallatin River Drainages. All other areas have near or above average moisture totals for the season.

VALLEY AREAS - Most of the lower elevation stations in Montana received near or below average precipitation during the October through December period with the exception of northwest Montana which received above to well above average precipitation. While the largest amounts were confined to the headwaters of the Flathead, Marias and St. Mary Rivers, unusually heavy precipitation also fell in the valleys of Flathead, Lake, Lincoln and Sanders Counties. In contrast to the wet conditions found in northwest Montana, extremely dry conditions persist in the southeast and northeast corners of the state where most stations have reported below to well below average precipitation since September. Below average valley precipitation has also fallen throughout most of the Jefferson, Madison, Judith and Musselshell Basins during the past three months.

RESERVOIRS

Most irrigation reservoirs in the state have near or above average storage levels for this time of year. The exceptions are Lima, Clark Canyon and Ruby Reservoirs where storage levels range from about 35 to 80 percent of average and only 15 to 40 percent of capacity. Below average storage levels are also reported in Deadman's Basin, Martinsdale, Bair and Smith River Reservoirs in the central part of the state where storages are about 70 to 80 percent of average. Storage in the larger multipurpose reservoirs is near to above average.

STREAMFLOW

Heavy precipitation produced well above average fall streamflows in the Kootenai, Flathead, St. Mary, Sun, Teton and Marias River Basins. Elsewhere, the October through December streamflow volumes have generally been below to well below average. West of the Divide, spring and summer streamflows are forecast to be 125 to 150 percent of average on the Kootenai and Flathead River Drainages, 75 to 85 percent of average for the Upper Clark Fork Basin and 90 to 105 percent of average on the Blackfoot, Bitterroot and upper reaches of the Lower Clark Fork River Basins. Flows on the Clark Fork below St. Regis are forecast to be 110 to 120 percent of average. East of the Divide, spring and summer streamflows are forecast to be 125 to 140 percent of average on the Sun, Teton, Marias, St. Mary and the upper reaches of the Milk River Drainages. On the Yellowstone Basin, streamflows are forecast to be near or a little below average. Streams in the southwest and central part of the state are forecast to be below to well below average with the lowest flows expected in the Jefferson River Drainage.

SOIL MOISTURE

In general, mountain soil moisture conditions are above average in northwest and north-central Montana, near to a little above average along the western edge of the state and below average in the southwest and central areas. Basins in south-central Montana show near to a little below average soil moisture.

SURFACE WATER SUPPLY INDEX

The Surface Water Supply Index (SWSI) values will not be published this month and will be available beginning in February.

KOOTENAI RIVER BASIN in Montana

Mountain precipitation was much above average in the early part of the season. Both October and November precipitation amounts were more than double the average. December precipitation amounts were lower but remained above average at about 120 percent of average. Since October 1, cumulative precipitation for the basin is about 180 percent of average. Basin snowpack conditions are also well above average for this time of year. It ranges from about 140 to 155 percent of average except on the East Kootenay tributary in British Columbia where the snowpack is over 200 percent of average. Soils under the snowpack are wetter than average as a result of heavy rain in October and early November. Storage in Lake Koocanusa is near average. Spring and summer streamflows are forecast to be above to well above average on all drainages with some tributary streams forecast to be about 150 percent of average.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
TOBACCO nr Eureka	APR-JUL	162	184	199	147	215	235	135
	APR-SEP	182	205	220	148	235	260	149
KOOTENAI bl Libby Dam (1,2)	APR-JUL	5770	6940	7650	130	8360	9530	5885
	APR-SEP	6760	8140	8970	130	9800	11200	6903
FISHER nr Libby	APR-JUL	270	320	355	150	390	440	236
	APR-SEP	290	340	375	148	410	460	253
YAAK nr Troy	APR-JUL	520	595	645	130	695	770	495
	APR-SEP	550	625	675	130	725	800	518
KOOTENAI at Leonia (1,2)	APR-JUL	7270	8740	9650	131	10600	12000	7340
	APR-SEP	8360	10000	11100	132	12200	13800	8441

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
LAKE KOOCANUSA	5748.0	3396.0	3037.0	3255.0

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
EAST KOOTENAI in B.C.	13	197	182
KOOTENAI MAINTSTEM in MT	15	245	138
TOBACCO	5	218	154
FISHER	1	241	147
YAAK	5	256	139
KOOTENAI in MT	18	247	140
KOOTENAI ab Bonners Ferry	31	225	153

FLATHEAD RIVER BASIN

For the water year which began October 1, mountain precipitation has been about 170 percent of average. October and November recorded the heaviest amounts at about 275 and 180 percent of average respectively. Snowpacks vary from about 135 to 160 percent of average with basins at the higher elevations recording the highest snowpack amounts. According to the National Weather Service, Kalispell set a record for the greatest monthly snowfall at 52.1 inches and the greatest snow depth at 34 inches for the month of December. Soil profiles under the snow are wetter than average as a result of the heavy precipitation in the early part of the season. Reservoir storages are near or above average except in the Mission Valley where the combined storage of the eight reservoirs is below average. Spring and summer streamflows are forecast to be above to well above average on all drainages and in the 125 to 140 percent of average range.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
NF Flathead nr Columbia Falls	APR-JUL	1970	2150	2290	135	2430	2620	1701
	APR-SEP	2180	2390	2530	135	2670	2890	1880
MF FLATHEAD nr West Glacier	APR-JUL	1790	2020	2180	130	2340	2570	1680
	APR-SEP	1970	2220	2390	130	2560	2810	1836
SF FLATHEAD nr Columbia Fls (1,2)	APR-JUL	2020	2450	2640	125	2830	3260	2110
	APR-SEP	2170	2610	2810	125	3010	3450	2249
FLATHEAD at Columbia Falls (2)	APR-JUL	6260	6910	7360	131	7810	8460	5622
	APR-SEP	6880	7550	8000	131	8450	9120	6114
STILLWATER nr Whitefish	APR-JUL	191	225	250	139	275	310	180
	APR-SEP	215	250	275	138	300	335	199
WHITEFISH nr Kalispell	APR-JUL	116	131	141	140	151	166	101
	APR-SEP	131	147	158	139	169	185	114
SWAN nr Bigfork	APR-JUL	635	705	750	125	800	865	599
	APR-SEP	720	800	855	125	910	990	685
FLATHEAD nr Polson (1,2)	APR-JUL	7200	8270	8760	133	9250	10300	6586
	APR-SEP	7790	9010	9510	133	10000	11200	7150

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
CAMAS (4)	45.2	25.9	14.8	19.2
MISSION VALLEY (8)	100.0	22.4	47.6	34.1
HUNGRY HORSE	3451.0	2840.0	2525.0	2649.0
FLATHEAD LAKE	1791.0	1255.0	1358.0	1340.0

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
NORTH FORK FLATHEAD	8	210	153
MIDDLE FORK FLATHEAD	8	166	155
SOUTH FORK FLATHEAD	8	170	147
STILLWATER-WHITEFISH	2	235	154
SWAN	8	140	139
MISSION VALLEY	4	116	123
LITTLE BITTERROOT-ASHLEY	1	241	147
JOCKO	6	161	131
FLATHEAD	32	170	144

UPPER CLARK FORK RIVER BASIN

Mountain precipitation was well above average for October and November and a little below average for December. Since October 1, cumulative precipitation is about 120 percent of average. Basin snowpacks vary from below to near average except in the Blackfoot Basin which is above average. The Clark Fork Drainage above Flint Creek reports the lowest snowpack conditions at about 75 percent of average. Soil moisture conditions are near to above average in the northern portion of the basin and near average elsewhere. Spring and summer streamflows are forecast to be near average on the Blackfoot River and below average on the Upper Clark Fork and its tributaries.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
		<---DRIER---		FUTURE		--WETTER--->		
		-----		CHANCE OF EXCEEDING *		-----		
MOULTON RES inflow (million gal.)	APR-JUN	84	145	186	80	230	290	233
	APR-JUL	88	158	205	80	255	320	257
WARM SPRINGS CK at Anaconda (2)	APR-JUL	16.0	25	30	79	36	44	38
	APR-SEP	23	32	38	81	44	53	47
LITTLE BLACKFOOT nr Garrison	APR-JUL	5.0	44	70	74	96	135	94
	APR-SEP	6.0	47	75	74	103	144	102
FLINT CK nr Southern Cross (2)	APR-JUL	4.8	8.7	11.4	75	14.1	18.0	15.2
	APR-SEP	5.5	10.2	13.5	75	16.8	22	18.0
FLINT CK bl Boulder Ck	APR-JUL	26	39	48	79	57	70	61
	APR-SEP	34	50	61	78	72	88	78
LOWER WILLOW CREEK RES inflow	APR-JUL	3.9	8.7	12.0	81	15.3	20	14.9
	APR-SEP	4.5	9.4	12.8	81	16.2	21	15.8
MF ROCK CK nr Philipsburg	APR-JUL	41	53	61	88	69	81	69
	APR-SEP	47	60	69	90	78	91	77
ROCK CK nr Clinton	APR-JUL	141	210	260	85	310	380	306
	APR-SEP	160	240	290	84	345	420	345
NEVADA CK nr Finn	APR-JUL	5.6	12.4	17.0	81	22	28	21
	APR-SEP	6.5	13.6	18.5	84	23	31	22
CLEARWATER nr Clearwater	APR-JUL	129	157	176	105	195	225	168
	APR-SEP	138	167	187	105	205	235	178
BLACKFOOT nr Bonner	APR-JUL	575	740	845	97	950	1090	874
	APR-SEP	640	820	935	96	1050	1210	969
CLARK FORK ab Milltown	APR-JUL	275	465	595	85	725	915	703
	APR-SEP	335	545	685	84	825	1040	812
CLARK FORK ab Missoula	APR-JUL	910	1230	1440	91	1650	1970	1577
	APR-SEP	1040	1390	1620	91	1850	2200	1781

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

FREQUENCY OF EXCEEDANCE

PEAKING POINT	MCEF (MAF/YEAR)	90% (MAF)	75% (MAF)	50% (MAF)	25% (MAF)	10% (MAF)	2.5% (MAF)
MCEF-10% reduction (million gal.)	MCE-10%	84	130	166	60	230	290	313
	MCE-10%	88	134	172	80	255	320	337
Small reduction-CE at Aquaduct (%)	ACM-10%	18.0	27	36	29	24	64	82
	ACM-10%	22	32	78	81	65	53	47
Little REACTOR or Garrison	ACM-10%	3.8	64	70	74	96	135	96
	ACM-10%	8.0	47	75	76	103	134	102
Plant CK or Goodness Dreen (%)	ACM-10%	6.6	8.7	11.0	75	16.1	18.0	15.2
	ACM-10%	5.4	10.2	11.5	75	15.8	22	18.0
Right CK-21 Bodies CK	ACK-10%	24	39	46	76	37	70	61
	ACK-10%	35	50	61	78	72	68	52
Upper VILLOW CREEK RES Inflow	ACK-10%	3.7	8.7	12.0	01	18.2	20	16.8
	ACK-10%	5.5	9.6	12.8	81	16.2	21	15.8
MF FORK CK or Presidpsburg	ACK-10%	41	33	61	88	82	81	60
	ACK-10%	47	80	80	90	78	91	77
BOLK CK or Clinton	ACK-10%	141	210	260	85	310	350	326
	ACK-10%	200	240	290	86	345	430	305
MORADA CK or Pano	ACK-10%	5.1	12.4	11.0	81	22	28	25
	ACK-10%	6.5	13.8	18.2	85	25	31	25
CLEARWATER or Clearwater	ACK-10%	172	157	176	105	195	215	106
	ACK-10%	178	197	187	105	201	205	178
BLACKFOOT or Power	ACK-10%	5.7	750	875	91	830	1040	874
	ACK-10%	640	830	815	86	1053	1210	960
CLEAR FORK ab Milltown	ACK-10%	275	465	565	85	725	915	765
	ACK-10%	335	565	685	86	825	1040	815
CLEAR FORK ab Missoula	ACK-10%	910	1230	1440	91	1650	1810	1577
	ACK-10%	1060	1300	1610	91	1830	2200	1781

* 90%, 75%, 50%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1881-1965 base period.

(1) - The values listed under the 10% and 90% Chances of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow; actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
GEORGETOWN LAKE	31.0	28.7	26.2	28.2
LOWER WILLOW CREEK	4.9	1.5	3.1	1.3
NEVADA CREEK		NO REPORT		

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
CLARK FORK ab FLINT CREEK	19	91	74
FLINT CREEK	7	120	91
ROCK CREEK	1	169	104
CLARK FORK ab BLACKFOOT	27	103	81
BLACKFOOT	15	172	125
UPPER CLARK FORK	39	131	99

BITTERROOT RIVER BASIN

October and November mountain precipitation amounts were above to well above average while December amounts were below average. The total precipitation accumulation since October 1 has been about 120 percent of average. Basin snowpacks are currently near to above average. Soil moisture conditions are near average. Storage in Lake Como is a little above average for this time of year. Spring and summer streamflows are forecast to be near average in the 90 to 105 percent of average range.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
WF BITTERROOT nr Conner (2)	APR-JUL	96	135	161	99	188	225	163
	APR-SEP	110	152	180	102	210	250	177
BITTERROOT nr Darby	APR-JUL	340	450	525	100	600	710	524
	APR-SEP	385	500	575	100	650	765	573
ROCK CK nr Darby (2)	APR-JUL	60	73	82	102	91	104	80
	APR-SEP	65	78	87	104	96	109	84
SKALKAHO CK nr Hamilton	APR-JUL	31	39	45	94	51	59	48
	APR-SEP	36	46	52	93	58	68	56
BURNT FORK CK nr Stevensville (2)	APR-JUL	17.0	23	28	93	33	39	30
	APR-SEP	21	28	33	92	38	46	36
BITTERROOT at Missoula	APR-JUL	865	1120	1300	95	1480	1740	1371
	APR-SEP	990	1250	1420	95	1590	1850	1495

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
PAINTED ROCKS LAKE	31.7	2.4	----	16.5
COMO	34.9	10.9	11.2	9.2

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
WEST FORK BITTERROOT	5	168	97
EAST SIDE BITTERROOT	2	174	100
WEST SIDE BITTERROOT	6	200	127
BITTERROOT	13	187	114

LOWER CLARK FORK RIVER BASIN

During October and November, precipitation in the mountains was well above average but below average in December. The total precipitation accumulation since October 1 has been about 150 percent of average. Snowpacks in the larger upstream tributaries range from average to well above average while the smaller tributaries of the Clark Fork River below Missoula report above to well above average snowpacks. Storage in Noxon Rapids Reservoir is near average. Streamflows for the spring and summer period are forecast to be a little below or near average on the Clark Fork between Missoula and St. Regis and above average in the lower reaches. Most of the smaller tributaries are forecast to have above average flows for the spring and summer period.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
CLARK FORK ab Missoula	APR-JUL	910	1230	1440	91	1650	1970	1577
	APR-SEP	1040	1390	1620	91	1850	2200	1781
CLARK FORK bl Missoula	APR-JUL	1800	2360	2740	93	3120	3680	2948
	APR-SEP	2070	2650	3040	93	3430	4010	3276
CLARK FORK at St. Regis (1)	APR-JUL	1870	2980	3700	95	4420	5530	3894
	APR-SEP	2080	3310	4110	95	4910	6140	4325
CLARK FORK nr Plains (1,2)	APR-JUL	8250	10900	12600	116	14300	17000	10850
	APR-SEP	9070	12000	13900	117	15800	18700	11930
THOMPSON nr Thompson Falls	APR-JUL	230	265	290	131	315	350	222
	APR-SEP	255	295	325	130	355	395	250
PROSPECT CK at Thompson Falls	APR-JUL	113	136	151	118	166	189	128
	APR-SEP	121	146	162	118	179	205	137
CLARK FORK at Whitehorse Rpds (1,	APR-JUL	8750	11700	13700	113	15700	18600	12150
	APR-SEP	9630	13000	15100	113	17200	20500	13370

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
NOXON RAPIDS	335.0	328.7	321.3	318.1

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
UPPER CLARK FORK	39	131	99
BITTERROOT	13	187	114
LOWER CLARK FORK	16	209	113
CLARK FORK TOTAL	63	165	106
FLATHEAD	26	171	148
PEND OREILLE	88	169	122

JEFFERSON RIVER BASIN

Mountain precipitation was near to a little above average for the October and November period but below average for December. Cumulative precipitation since October 1 is about 90 percent of average. Some of the October and early November moisture fell in the form of rain at the lower and mid-elevations prior to the accumumlation of snow. Snowpack conditions are below to well below average with the Red Rock River Drainage reporting only about 50 percent of average. Fall precipitation did improve soil moisture conditions but soils under the snowpack remain drier than average. Reservoir storage levels are below to well below average. Streamflows for the spring and summer period are forecast to be below to well below average in the 60 to 80 percent of average range.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
RED ROCK RIVER near Monida (2)	APR-JUL	30	56	73	70	90	116	105
	APR-SEP	31	59	79	69	99	128	114
BEAVERHEAD RIVER near Grant (2)	APR-JUL	9.0	63	100	67	137	191	149
	APR-SEP	3.0	67	110	63	154	215	175
BEAVERHEAD RIVER at Barratts (2)	APR-JUL	32	95	137	71	180	240	192
	APR-SEP	32	105	154	69	205	275	224
RUBY RIVER near Alder	APR-JUL	42	58	69	78	80	97	89
	APR-SEP	52	72	85	80	98	118	106
BIG HOLE RIVER near Melrose	APR-JUL	280	435	545	78	655	810	696
	APR-SEP	310	480	595	79	710	880	757
BOULDER RIVER near Boulder	APR-JUL	29	56	75	82	94	121	91
	APR-SEP	30	60	80	82	100	130	97
WILLOW CREEK near Harrison	APR-JUL	2.1	8.5	12.8	68	17.1	24	18.9
	APR-SEP	2.1	9.3	14.2	68	19.1	26	21
JEFFERSON RIVER near Three Forks	APR-JUL	220	465	635	61	805	1050	1042
	APR-SEP	250	505	680	59	855	1110	1156

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
LIMA	84.0	12.1	18.0	35.3
CLARK CANYON	255.6	78.0	73.5	142.2
RUBY RIVER	38.8	16.0	15.4	20.3

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
BEAVERHEAD	20	151	67
RUBY	5	98	79
BIGHOLE	16	121	80
BOULDER	11	76	69
JEFFERSON	44	122	72

MADISON RIVER BASIN

Mountain precipitation since October 1 has been about 90 percent of average over the basin. October moisture was near average while November and December had a little below average moisture. Snowpack conditions currently range from a little below average in the Madison Drainage to well below average in the areas of the Gravelly Range. Soils under the snowpack are drier than average. Spring and summer streamflows are forecast to be about 80 to 85 percent of average.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
		<---DRIER---	FUTURE		--WETTER--->			
		-----	CHANCE OF	EXCEEDING	*	-----		
MADISON RIVER near Grayling (2)	APR-JUL	265	310	340	85	370	415	399
	APR-SEP	335	390	425	85	460	515	499
MADISON RIVER near McAllister (2)	APR-JUL	420	495	550	81	605	680	680
	APR-SEP	535	625	685	80	745	835	856

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
ENNIS LAKE	41.0	29.9	29.8	34.4
HEBGEN LAKE	377.5	256.4	252.1	242.1

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
MADISON above HEBGEN	10	139	83
LOWER MADISON	9	99	86
MADISON	19	116	84

GALLATIN RIVER BASIN

Mountain precipitation was near average for October and November and below average in December. Since October 1, precipitation accumulation has been about 90 percent of average. Snowpack conditions are a little below average in the Gallatin River Drainage and below average in the East Gallatin River Drainage. Snowpacks at the higher elevations are better than at the lower elevations. Soil profiles under the snowpack are drier than average. Storage in Middle Creek Reservoir is about 150 percent of average for this time of year. Streamflows for the spring and summer period are forecast to be below average in the 70 to 85 percent of average range.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
GALLATIN RIVER near Gateway	APR-JUL	245	300	335	73	370	425	460
	APR-SEP	290	350	390	72	430	490	540
E & W FK HYALITE CK nr Bozeman (2)	APR-JUL	13.8	17.5	20	83	23	26	24
	APR-SEP	17.0	20	23	82	26	29	28
HYALITE CREEK near Bozeman (2)	APR-JUL	22	28	32	84	36	42	38
	APR-SEP	26	33	37	84	41	48	44
GALLATIN RIVER at Logan	APR-JUL	230	330	400	76	470	570	528
	APR-SEP	295	400	470	76	540	645	616

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
MIDDLE CREEK	8.0	4.7	4.8	3.1

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
UPPER GALLATIN	6	94	89
EAST GALLATIN	7	74	78
GALLATIN	12	84	84

MAINSTEM MISSOURI RIVER BASIN

Mountain precipitation was above average during October and November and near average in December. Since October 1, cumulative precipitation has totaled about 110 percent of average. Snowpacks on the tributary streams are a little below to near average except at the low elevation areas where well below average snowpacks are generally found. Soils under the snowpack are drier than average. Storage in Canyon Ferry Reservoir is near average. Spring and summer streamflows on the Missouri Main Stem are generally forecast to range from about 75 percent of average at Toston to about 85 percent of average at Landusky. The inflow into Lake Sakakawea is forecast to about 95 percent of average. Flows on the Sun and Marias Rivers are expected to be about 130 percent of average.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
MISSOURI RIVER at Toston (2)	APR-JUL	960	1400	1700	76	2000	2440	2250
	APR-SEP	1160	1640	1960	76	2280	2760	2590
PRICKLY PEAR CREEK nr Clancy	APR-JUL	8.0	18.0	25	96	32	42	26
	APR-SEP	9.0	21	29	94	37	49	31
SUN RIVER at Gibson Dam (2)	APR-JUL	435	550	630	128	710	825	494
	APR-SEP	490	610	695	128	780	900	542
MISSOURI RIVER at Fort Benton (2)	APR-JUL	1330	2250	2880	83	3510	4430	3470
	APR-SEP	1610	2610	3300	83	3990	4990	3990
MARIAS RIVER near Shelby (2)	APR-JUL	305	490	620	130	750	935	478
	APR-SEP	325	520	650	130	780	975	501
MISSOURI RIVER at Virgelle (2)	APR-JUL	1410	2560	3330	84	4110	5250	3960
	APR-SEP	1720	2960	3800	84	4640	5880	4500
MISSOURI RIVER near Landusky (2)	APR-JUL	1530	2820	3700	86	4580	5870	4310
	APR-SEP	1860	3250	4200	86	5150	6540	4900
MISSOURI RIVER below Fort Peck (2)	APR-JUL	1210	2650	3620	85	4590	6030	4260
	APR-SEP	1500	3050	4100	85	5150	6700	4800
LAKE SAKAKAWEA Inflow (2)	APR-JUL	5800	8600	10500	95	12400	15200	11000
	APR-SEP	6050	9300	11500	94	13700	16900	12200

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

STREAMFLOW FORECASTS

FORECAST POINT	PERIOD	POST	CHANCE OF EXCEEDING (KAF) 90%	70%	50%	30%	10%	POST (KAF)
MISSOURI RIVER at Toston (2)	APR-JUL	960	1360	1700	24	2090	2450	2250
	APR-SEP	1160	1610	1990	26	2390	2790	2590
PRICKLY PEAR CREEK nr Clancy	APR-JUL	8.0	18.0		24	32	42	24
	APR-SEP	9.0	21		25	34	49	31
END RIVER at Three Ens (2)	APR-JUL	435	550	630	128	710	825	494
	APR-SEP	460	610	695	128	780	900	542
MISSOURI RIVER at Fort Benton (2)	APR-JUL	1330	2250	2860	83	3510	4430	3270
	APR-SEP	1610	2610	3300	83	3990	4990	3990
MARIAS RIVER near Shelby (2)	APR-JUL	305	490	620	120	760	955	478
	APR-SEP	325	530	650	120	780	975	501
MISSOURI RIVER at Virgelle (2)	APR-JUL	1810	2960	3710	84	4410	5250	3960
	APR-SEP	1720	2960	3900	84	4840	5880	4500
MISSOURI RIVER near Landusky (2)	APR-JUL	1210	2820	3700	86	4580	5670	4310
	APR-SEP	1560	3250	4200	86	5130	6340	4900
MISSOURI RIVER below Fort Peck (1)(2)	APR-JUL	1210	2630	3520	85	4590	6030	4260
	APR-SEP	1200	3020	4100	85	5130	6700	4800
LAKE SAKAKAWEA Inflow (2)	APR-JUL	3800	8600	10500	85	12400	13200	11000
	APR-SEP	4050	9300	11500	84	13700	14900	12200

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are normally 75% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
CANYON FERRY LAKE	2043.0	1719.0	1533.0	1719.0
HELENA VALLEY	9.2	4.6	4.0	5.7
LAKE HELENA	10.4	10.9	10.7	10.3
HAUSER & HELENA	61.9	63.1	62.5	61.4
HOLTER LAKE	81.9	40.9	81.4	75.8
FORT PECK LAKE (MAF)	18.9	10.6	11.5	15.4

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
MISSOURI HEADWATERS	67	112	77
WEST SIDE MISSOURI	9	82	81
SMITH-BELT	5	95	96
MAINSTEM MISSOURI	14	88	88
SUN-TETON-MARIAS	8	183	171
JUDITH-MUSSELSHELL	8	71	78
MISSOURI above FORT PECK	87	118	89
MILK RIVER	10	132	126
MISSOURI in MONTANA	95	115	89
MISSOURI blw YELLOWSTONE	144	107	90

SMITH-JUDITH-MUSSELSHELL RIVER BASINS

Mountain precipitation was near average during October and a little below average during November and December. Cumulative precipitation since October 1 has been about 95 percent of average. Higher elevation snowpacks range from about 80 to 95 percent of average in the headwaters of the Smith and Musselshell River Drainages but decrease to about 60 percent of average in the Snowy Mountains near Lewistown. Low elevation snowpacks are generally well below average throughout the basin. Soils under the snowpack are drier than average. Streamflows for the spring and summer period are forecast to be below average in the 70 to 80 percent of average range.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
SMITH RIVER nr Ft. Logan	APR-JUL	10.0	32	47	69	62	84	68
	APR-SEP	17.0	41	57	71	73	97	80
SHEEP CK nr White Sulphur Springs	APR-JUL	9.0	12.3	14.5	77	16.7	20	18.8
	APR-SEP	11.0	14.6	17.0	77	19.4	23	22
N.F. MUSSELSHELL near Delpine	APR-JUL	1.2	2.9	4.0	78	5.1	6.8	5.1
	APR-SEP	1.3	3.2	4.5	76	5.8	7.7	5.9
S.F. MUSSELSHELL above Martinsdale	APR-JUL	6.0	29	44	77	59	82	57
	APR-SEP	9.0	32	48	79	64	87	61

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
SMITH RIVER	10.6	4.5	2.8	6.4
NEWLAN CREEK	12.4	9.2	8.8	8.8
BAIR	7.0	2.8	6.0	3.8
MARTINSDALE	23.1	8.0	10.0	9.8
DEADMAN'S BASIN	72.2	30.0	25.4	42.6

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
SMITH-BELT	5	95	96
JUDITH-MUSSELSHELL	8	71	78

SUN-TETON-MARIAS RIVER BASINS

Mountain precipitation amounts were well above average for the months of October and November while December moisture was a little above average. Since October 1, mountain precipitation has been about 190 percent of average. Basin snowpacks range from about 165 to 180 percent of average with the higher elevations along the Divide being nearly double the average. The lower elevation areas show only a little above average snowpacks. Soil moisture levels under the snowpack are above average at the higher elevations in the western part of the basin but decrease to below average in the valley areas of the eastern part. Reservoir storage is near to above average. Spring and summer streamflows are expected to be above to well above average in the 125 to 140 percent of average range.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
		<---DRIER---	FUTURE			--WETTER--->		
		-----	CHANCE OF EXCEEDING	*		-----		
SUN RIVER at Gibson Dam (2)	APR-JUL	435	550	630	128	710	825	494
	APR-SEP	490	610	695	128	780	900	542
TWO MEDICINE CREEK nr Browning (2)	APR-JUL	186	250	290	131	330	395	222
	APR-SEP	205	270	310	132	350	415	235
BADGER CREEK near Browning	APR-JUL	92	121	140	131	159	188	107
	APR-SEP	119	149	170	138	191	220	123
SWIFT RESERVOIR Inflow nr Dupuyer	APR-JUL	55	75	89	127	103	123	70
	APR-SEP	69	90	105	128	120	141	82
DUPUYER CREEK near Valier	APR-JUL	1.0	14.0	22	130	31	43	17.0
	APR-SEP	4.0	16.0	24	128	32	44	19.0
CUT BANK CREEK at Cut Bank	APR-JUL	80	106	123	134	141	166	92
	APR-SEP	95	122	140	140	158	185	100
MARIAS RIVER near Shelby (2)	APR-JUL	305	490	620	130	750	935	478
	APR-SEP	325	520	650	130	780	975	501

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
GIBSON	99.1	48.6	59.8	39.6
PISHKUN	32.0	19.8	18.9	18.4
WILLOW CREEK	32.2	27.8	30.0	20.1
LOWER TWO MEDICINE LAKE		NO REPORT		
FOUR HORNS LAKE		NO REPORT		
SWIFT	30.0	16.1	20.5	12.0
LAKE FRANCES	112.0	68.8	92.8	68.6
LAKE ELWELL (TIBER)	1347.0	743.3	805.6	562.8

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
SUN-TETON	3	201	167
MARIAS	5	178	173
SUN-TETON-MARIAS	8	183	171

ST. MARY and MILK RIVER BASINS

Mountain precipitation was more than double the average for the October-November period. December amounts were near average. For the water year which began October 1, cumulative precipitation has been about 170 percent of average with the greatest amounts falling in the western headwater areas of the basin. Snowpack conditions in the headwater areas of the Milk and St. Mary Rivers are well above average. In contrast, snowpacks in the Bear Paw Mountains are only about 50 percent of average. Soils under the snowpack are wetter than average in the western part of the basin but drier than average in the lower reaches of the Milk River Drainage. Spring and summer streamflows are expected to be above average in the 115 to 120 percent of average range.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
SWIFTCURRENT CREEK at Sherburne (	APR-JUL	107	121	130	118	139	153	110
	APR-SEP	131	145	155	121	165	179	128
ST. MARY RIVER near Babb (2)	APR-JUL	375	435	475	118	515	575	404
	APR-SEP	460	525	570	120	615	680	474
MILK RIVER at Eastern Crossing (2)	MAR-SEP	73	82	105	108	127	162	97
MILK RIVER at Eastern Crossing	MAR-SEP			280	104			270

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
LAKE SHERBURNE	64.3	38.4	30.0	18.8
FRESNO	127.0	53.9	79.8	53.5
BEAVER CREEK	3.5	2.6	2.2	1.8
NELSON	66.8	38.8	39.6	38.9

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
MILK HEADWATERS	3	225	168
BEAR PAW	7	36	49
MILK RIVER	10	132	126
ST. MARY	4	197	164
ST. MARY and MILK	11	143	137
BOW RIVER in ALBERTA	5	199	232
OLDMAN RIVER in ALBERTA	0	0	0

UPPER YELLOWSTONE RIVER BASIN

Mountain precipitation was above average in October, near average in November and below average for December. Since October 1, the precipitation accumulation has been near average. Snowpack conditions range from about 75 to 95 percent of average with the tributaries below Livingston showing the highest figures and the Shields River reporting the lowest. Soils under the snowpack are a little drier than average. Streamflows for the spring and summer period are expected to be near to a little below average in the 90 to 100 percent of average range.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	<---DRIER--- FUTURE --WETTER---> CHANCE OF EXCEEDING * 90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
YELLOWSTONE at Lake Outlet	APR-JUL	390	490	555	94	620	720	590
	APR-SEP	540	670	760	93	850	980	818
YELLOWSTONE RIVER at Corwin Sprin	APR-JUL	1230	1450	1600	97	1750	1970	1650
	APR-SEP	1500	1760	1930	96	2100	2360	2000
YELLOWSTONE RIVER near Livingston	APR-JUL	1390	1650	1830	95	2010	2270	1920
	APR-SEP	1720	2020	2220	95	2420	2720	2330
SHIELDS RIVER near Livingston	APR-JUL	53	111	150	89	189	245	168
	APR-SEP	68	127	168	90	210	270	187
BOULDER RIVER at Big Timber	APR-JUL	210	275	315	89	355	420	353
	APR-SEP	230	295	340	89	385	450	384
WEST ROSEBUD CREEK near Roscoe	APR-JUL	40	49	55	86	61	70	64
	APR-SEP	54	63	70	84	77	87	83
STILLWATER RIVER nr Absarokee (2)	APR-JUL	320	420	485	93	550	650	524
	APR-SEP	400	505	575	92	645	750	625
CLARKS FORK RIVER near Belfry	APR-JUL	340	435	495	92	555	650	540
	APR-SEP	385	485	550	91	615	715	603
RED LODGE CK blw Cooney Res (2)	APR-JUL	21	38	50	102	62	79	49
	APR-SEP	32	49	61	102	73	90	60
YELLOWSTONE RIVER at Billings	APR-JUL	2580	3220	3660	98	4100	4740	3740
	APR-SEP	3130	3830	4300	98	4770	5470	4410

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

STREAMFLOW FORECASTS

FORECAST POINT	PERIOD	<--DRIER--- FUTURE ---WETTER---> CHANCE OF EXCEEDING							
		90% (KAF)	70% (KAF)	50% (KAF)	30% (KAF)	10% (KAF)	10% AVG (KAF)	30% AVG (KAF)	2STR (KAF)
YELLOWSTONE at Lake Outlet	APR-JUL	360	480	555	630	820	720	590	
	APR-SEP	540	670	750	83	830	980	818	
YELLOWSTONE RIVER at Corwin Springs	APR-JUL	1230	1430	1600	77	1730	1970	1630	
	APR-SEP	1500	1760	1930	96	2100	2360	2000	
YELLOWSTONE RIVER near Livingston	APR-JUL	1590	1850	1830	85	6010	2270	1930	
	APR-SEP	1730	2030	2220	05	2420	2720	2370	
BOULDER RIVER near Contact	APR-JUL	33	113	150	80	189	245	168	
	APR-SEP	68	127	158	90	210	270	187	
BOULDER RIVER at Big Timber	APR-JUL	210	275	315	80	355	430	353	
	APR-SEP	230	295	340	89	385	450	354	
WEST BOULDER CREEK near Boyce	APR-JUL	40	49	55	86	61	70	64	
	APR-SEP	36	43	20	84	77	87	83	
STILLWATER RIVER at Absarokee (2)	APR-JUL	350	430	485	83	530	630	524	
	APR-SEP	400	505	575	82	645	750	625	
CLARKS FORK RIVER near Belfry	APR-JUL	320	435	495	82	555	650	540	
	APR-SEP	335	465	550	91	615	715	603	
RED LODGE CK blw Cooney Res.(2)	APR-JUL	21	35	30	102	62	79	49	
	APR-SEP	32	49	61	109	73	90	60	
YELLOWSTONE RIVER at Billings	APR-JUL	2320	3220	3660	92	4100	4760	3760	
	APR-SEP	3130	3830	4300	98	4770	5470	4410	

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1951-1983 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 3% and 97% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
MYSTIC LAKE	21.0	6.8	8.0	12.5
COONEY	27.4	17.7	20.6	13.3

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
YELLOWSTONE ab LIVINGSTON	17	100	88
SHIELDS	6	76	76
BOULDER-STILLWATER	3	80	92
CLARK'S FORK-ROCK CREEK	10	99	91
YELLOWSTONE above BIGHORN	31	94	87

LOWER YELLOWSTONE RIVER BASIN

Mountain precipitation was above average for October but a little below average for both November and December. The accumulation since October 1 is about 105 percent of average. Snowpack conditions in the tributary headwaters in Wyoming generally range from near average in the Bighorn River Basin to a little below average in the Tongue and Powder River Drainages. The Little Bighorn River Basin showed well below average snowpack. Soils under the snowpack are a little drier than average. Storage in Bighorn Lake is about 120 percent of average. Streamflows for the spring and summer period are forecast to be near average except on the Little Bighorn and Tongue River Basins where flows are expected to be 80 to 85 percent of average.

STREAMFLOW FORECASTS

FORECAST POINT	FCST PERIOD	90% (KAF)	70% (KAF)	50% (KAF)	50% %AVG	30% (KAF)	10% (KAF)	25YR (KAF)
		<---DRIER---		FUTURE		--WETTER--->		
		-----		CHANCE OF EXCEEDING *		-----		
YELLOWSTONE RIVER at Billings	APR-JUL	2580	3220	3660	98	4100	4740	3740
	APR-SEP	3130	3830	4300	98	4770	5470	4410
BIG HORN RIVER nr St. Xavier (2)	APR-JUL	1010	1480	1810	104	2140	2610	1740
	APR-SEP	1150	1660	2000	104	2340	2850	1920
LITTLE BIGHORN RIVER nr Hardin	APR-JUL	16.0	82	126	83	170	235	151
	APR-SEP	20	92	140	82	188	260	170
TONGUE RIVER near Decker (2)	APR-JUL	65	148	205	85	260	345	240
	APR-SEP	73	160	220	83	280	365	265
YELLOWSTONE RIVER at Miles City (	APR-JUL	3560	4830	5700	101	6570	7840	5640
	APR-SEP	4200	5630	6600	101	7570	9000	6510
POWDER RIVER near Locate	APR-SEP	195	245	280	93	315	365	302
YELLOWSTONE RIVER nr Sidney (2)	APR-JUL	3900	5300	6260	100	7220	8620	6260
	APR-SEP	4720	6200	7200	100	8200	9680	7200

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

RESERVOIR STORAGE (1000AF)

RESERVOIR	USABLE CAPACITY	** USABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
BIGHORN LAKE	1356.0	881.0	864.0	730.1
TONGUE RIVER		NO REPORT		

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
BIG HORN (Wyoming)	29	103	97
LITTLE BIGHORN	2	41	60
TONGUE RIVER (Wyoming)	5	61	84
POWDER RIVER (Wyoming)	7	69	85
YELLOWSTONE RIVER	60	92	90